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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/074,208	02/12/2002	Charles E. Taylor	SHPR-01041USO SRM	4381	
23910	7590 12/01/2004	EXAMINER		NER	
FLIESLER MEYER, LLP FOUR EMBARCADERO CENTER SUITE 400 SAN FRANCISCO, CA 94111			TRAN, T	TRAN, THAO T	
			ART UNIT	PAPER NUMBER	
			1711		

DATE MAILED: 12/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/074,208	TAYLOR, CHARLES E.				
		Examiner	Art Unit				
The MAIL INC DATE CO		Thao T. Tran	1711				
Period for Reply	his communication ap _l	pears on the cover sheet with t	the correspondence address				
- Failure to reply within the set or extended	communication. The provisions of 37 CFR 1.1 The of this communication. The provisions of 37 CFR 1.1 The provisions of 37 C	36(a). In no event, however, may a reply	be timely filed)) days will be considered timely. from the mailing date of this communication.				
Status							
1) Responsive to communic	cation(s) filed on 27 O	october 2004					
2a) ☐ This action is FINAL.		action is non-final.					
3)☐ Since this application is i	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-52</u> is/are pend	ling in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are alle	5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-52</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers			,				
9) The specification is object	ed to by the Examine	r					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119			70 102.				
12) Acknowledgment is made	of a claim for foreign None of:	priority under 35 U.S.C. § 119	9(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the	International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)		4) Interview Summ	ary (PTO-413)				
2) Notice of Draftsperson's Patent Drawi	ng Review (PTO-948)	Paper No(s)/Mail	Date				
 Information Disclosure Statement(s) (F Paper No(s)/Mail Date 	'1 O-1449 or PTO/SB/08)	5) Notice of Informa 6) Other:	al Patent Application (PTO-152)				
S. Patent and Trademark Office		3) <u></u> .					

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/27/04 has been entered.
- 2. Claims 1-52 are currently pending in this application.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee (US Pat. 4,789,801).

Lee teaches an ion generator and an air conditioner (loud speaker), comprising a first array of electrodes; a second array of electrodes downstream from the first array; and a voltage generator coupled to the electrodes to create an airflow from the first to the second electrodes; each electrode is of one-piece construction; the first electrodes being ion emitters and pin-

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shaped, whereas the second electrodes ion collectors (see Figs. 2-3; col. 5, ln. 37-65; col. 6, ln. 26-42).

The second electrodes in Lee's invention are solid in structure, having a leading nose and a two side walls (see Fig. 3), not with the ends bent back to meet each other to make hollow electrodes. However, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, that specific configurations of the electrodes would have been an obvious matter of design choice. Since the second electrodes in Lee's invention are also collector electrodes, they would work equally well because the collector electrodes collect ion particles on the surface. Moreover, specific configurations of the electrodes would have been determined by routine experimentation in order to achieve maximal benefits attendant therewith.

In regards to claims 21-23, 26-37, 48-50, it has been settled within the skill in the art that the manner of operation, intended use, or how the product is made, would have insignificant patentable weight when an apparatus claim is being considered. See MPEP 2114.

5. Claims 1-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakakibara et al. (US Pat. 4,643,745).

Sakakibara teaches an air cleaner, which includes an ion generator, comprising a first array of electrodes; a second array of electrodes downstream of the first array; a voltage generator coupled to the electrodes to create an airflow from the first to the second electrodes; each electrode is of one-piece construction; the first electrodes being ion emitters and pin-shaped, whereas the second electrodes ion collectors (see Figs. 1-4, 10; col. 2, ln. 57-67; col. 3, ln. 46-67).

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Sakakibara's second electrodes are solid in structure, having a leading nose and a two side walls (see Figs. 2, 6, 9), not with the ends bent back to meet each other to form hollow electrodes. However, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, that specific configurations of the electrodes would have been an obvious matter of design choice. Since the second electrodes in Lee's invention are also collector electrodes, they would work equally well because the collector electrodes collect ion particles on the surface. Moreover, specific configurations of the electrodes would have been determined by routine experimentation in order to achieve maximal benefits attendant therewith.

In regards to claims 21-23, 26-37, 48-50, it has been settled within the skill in the art that the manner of operation, intended use, or how the product is made, would have insignificant patentable weight when an apparatus claim is being considered. See MPEP 2114.

Response to Arguments

6. Applicant's arguments filed on January 08, 2004 have been fully considered but they are not persuasive.

Throughout the Remarks, applicants provide the advantages of the presently claimed configurations of the electrodes over the prior art. However, as pointed out in the previous Office action and paragraphs 4-5 above, a specific configuration of an electrode would have been a matter of design choice, determined by routine experimentation in order to bring forth maximal benefits attendant therewith. Moreover, whether the electrodes are solid or hollow, since they have the same surface area, they would have worked equally well in attracting charged particles in the air stream.

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As pointed out by Applicants, an electrode that is "formed to have a leading nose and two side walls with ends to the side walls bent back to substantially meet each other will be less expensive to produce than a solid electrode having the same dimension". It would not be obvious to one of ordinary skill in the art to envision that such electrode would be less expensive than a solid one since the cost of an electrode would depend on different parameters, such as material, size, and workmanship.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao T. Tran whose telephone number is 571-272-1080. The examiner can normally be reached on Monday-Friday, from 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

tt November 29, 2004

> THAOT. TRAN PATENT EXAMINER